

FORMS INCLUDED IN THIS APPENDIX:

Asphalt Paving
Aggregates
Bridge Deck Overlay
Concrete Structures
Portland Cement Concrete Paving & Base Repair
Guardrail & Safety Enhancement
Subdrain
Culvert & Storm Sewer Pipe
Miscellaneous Materials

2004

Construction and Materials Review

ASPHALT PAVING

Includes Cold-In-Place Recycling

Project No.: _____

Contract No.: _____

County: _____

Contractor: _____

Refer to IM 204 for Acceptance of Materials

<u>Contract Item No.</u>	<u>Basis of Acceptance</u>	<u>Type</u>	<u>Source</u>
_____	Cert. Binder	_____	_____
_____	Cert. Binder	_____	_____
_____	Cert. Liq. Asp./Cutbacks	_____	_____
_____	Cert. Liq. Asp./Cutbacks	_____	_____

<u>Contract Item No.</u>	<u>Basis of Acceptance</u>	<u>Type and Design No.</u>	<u>Unit</u>	<u>Final Quantity</u>	<u>Reported Quantity</u>
_____	Plant Report HMA	_____	Tons / SY	_____	_____
_____	Plant Report HMA	_____	Tons / SY	_____	_____
_____	Plant Report HMA	_____	Tons / SY	_____	_____
_____	Plant Report HMA	_____	Tons / SY	_____	_____
_____	Plant Report HMA	_____	Tons / SY	_____	_____
_____	Plant Report HMA	_____	Tons / SY	_____	_____

Job Control Tests (Construction)

			<u>Required</u>	<u>Reported</u>
Combined aggregate-gradation		1 Cert Test / Lot	_____	_____
Monitor gradation tests (splits w / CPI)		1st day + 10%	_____	_____
Binder (DSR) Sample		1 / 80 Tons	_____	_____
Binder (DSR) Tests		1st 3 days - 1 / wk	_____	_____
Liquid asphalt Viscosity or Residue		1 per project	_____	_____
Lab density (QMA) No. of tests based on production			_____	_____
Lab density (Non-QMA)		1 per lot	_____	_____
Compacted Mixture (Density, voids & thickness)		1 per lot	_____	_____
Quality Index		1 per lot	_____	_____
Filler bitumen ratio		1 per lot	_____	_____
Smoothness Certified Test		Form 1263	_____	_____

Verification Test (Materials)

Aggregate Quality		1 / 20,000 Tons of Mix	_____	_____
AC Binder		1 / 20,000 Tons of Mix	_____	_____
Uncompacted mixture (Lab Density/Voids)		1 / 20,000 Tons of Mix	_____	_____

Independent Assurance (Materials)

Compacted mixture (Lab Density/Voids)		1st day + 10%	_____	_____
Smoothness Form 1263		10% of project	_____	_____

Comments: _____

Project Engineer Reviewed by: _____ Date: _____
District Materials Reviewed by: _____ Date: _____

2004

Construction and Materials Review

AGGREGATES

Project No.: _____ Contract No.: _____

County: _____ Contractor: _____

Refer to IM 204 for Acceptance of Materials

Proportioned Aggregates

Basis of Acceptance

	<u>Type of Aggregate</u>	<u>Source / T203 A-Number</u>
Cert.	_____	_____
Cert.	_____	_____
Cert.	_____	_____
Cert.	_____	_____
Cert.	_____	_____
Cert.	_____	_____

Non-Proportioned Aggregates (Porous Backfill, Subbase, Revetment, Etc...)

Basis of Acceptance

<u>Contract Item No.</u>		<u>Type of Aggregate</u>	<u>Source / T203 A-Number</u>	<u>Units</u>	<u>Final Quantity</u>	<u>Reported Quantity</u>
_____	Cert.	_____	_____	Tons	_____	_____
_____	Cert.	_____	_____	Tons	_____	_____
_____	Cert.	_____	_____	Tons	_____	_____
_____	Cert.	_____	_____	Tons	_____	_____
_____	Cert.	_____	_____	Tons	_____	_____
_____	Cert.	_____	_____	Tons	_____	_____

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____

2004

Construction and Materials Review
BRIDGE DECK OVERLAY

Project No.: _____

Contract No.: _____

County: _____

Contractor: _____

Refer to IM 204 for Acceptance of Materials

<u>Contract Item No.</u>	<u>Mix Type</u>	<u>Final Quantity</u>	<u>Required Quantity</u>
_____	Plant Report	_____	_____
_____	Plant Report	_____	_____
_____	Plant Report	_____	_____
_____	Plant Report	_____	_____
_____	Plant Report	_____	_____
_____	Plant Report	_____	_____

<u>Items</u>	<u>Basis of Acceptance</u>	<u>Approved Source</u>
Cement	Cert. / Approved Source	_____
GGBFS	Cert. / Approved Source	_____
Fly Ash Type _____	Cert. / Approved Source	_____
Fine Agg	Cert. / Appr. Source & Monitor	_____
Coarse Agg	Cert. / Appr. Source & Monitor	_____

<u>Items</u>	<u>Basis of Acceptance</u>	<u>Approved Brand &/or Batch #</u>
Air Entraining Agent	Approved Brand	_____
Curing Compound , White	Approved Brand / Batch #	_____
Retarding Admixture	Approved Brand	_____
Water Reducer Admixture	Approved Brand	_____

	<u>Job Control Tests (Construction)</u>	<u>Required</u>	<u>Reported</u>
Air Test	1 / 100 SY Form 211	_____	_____
Slump Test	1 / 100 SY Form 212	_____	_____
Density-Nuclear	6 / bridge or min. 3 per placement	_____	_____
Smoothness	Cert. Report Form 1263	_____	_____

	<u>Verification Tests (Materials)</u>		
Coarse aggregate-quality	1 / project	_____	_____
Cement	1 / project	_____	_____

	<u>Independent Assurance (Materials)</u>		
Nuclear test-densities	Witness Form 1297	_____	_____
Smoothness	1 set wheeltracks (minimum) Form 1263	_____	_____

	<u>Department Info (Materials)</u>		
Compression cylinders (primary projects only	3 / project	_____	_____

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____

2004

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Construction and Materials Review

CONCRETE STRUCTURES

Project No.: _____ Contract No.: _____

County: _____ Contractor: _____

Type of Structure: _____

<u>Contract Item No.</u>	<u>Mix Type</u>	<u>Final Quantity</u>	<u>Required Quantity</u>
_____ Plant Report	_____	_____	_____
_____ Plant Report	_____	_____	_____
_____ Plant Report	_____	_____	_____
_____ Plant Report	_____	_____	_____
_____ Plant Report	_____	_____	_____
_____ Plant Report	_____	_____	_____

Refer to IM 204 for Acceptance of Materials

<u>Items</u>	<u>Basis of Acceptance</u>	<u>Approved Source</u>
Cement	Cert. / Approved Source	_____
GGBFS	Cert. / Approved Source	_____
Fly Ash Type _____	Cert. / Approved Source	_____

<u>Contract Item No.</u>	<u>Items</u>	<u>Basis of Acceptance</u>	<u>Unit</u>	<u>Final Quantity</u>	<u>Reported Quantity</u>
_____	Beams, prestressed	Fabrication Report	Each	_____	_____
_____	Piling, wood	Cert or Test Rpt from Approved Agency	Lf.	_____	_____
_____	Piling, steel H (53)	Mill Cert	Lf.	_____	_____
_____	Piling, steel H (42)	Mill Cert	Lf.	_____	_____
_____	Piling, concrete	Fabrication Report	Each	_____	_____
_____	Reinforcing steel, uncoated	Mill Cert	Lbs.	_____	_____
_____	Epoxy coated steel	Mill Cert, Epoxy Cert & Test Report	Lbs.	_____	_____
_____	Steel diaphragms	Approved Shop Drawing & Fab Report	Lbs.	_____	_____
_____	Floor drains	Approved Shop Drawing & Fab Report	Lbs.	_____	_____
_____	Steel masonry plates	Approved Shop Drawing & Fab Report	Lbs.	_____	_____
_____	Structural steel	Approved Shop Drawing & Fab Report	Lbs.	_____	_____

			<u>Required</u>	<u>Reported</u>
_____	Plastic Conduit Size/Type	Test Report	_____	_____
_____	Plastic Conduit Size/Type	Test Report	_____	_____
_____	Plastic Conduit Size/Type	Test Report	_____	_____
_____	Bronze bearing plates	Test Report	_____	_____

			<u>Approved Manufacturer / Brand</u>
_____	Steel Conduit	Size _____	Approved Manufacturer / Brand
_____	Steel Conduit	Size _____	Approved Manufacturer / Brand
_____	Steel Conduit	Size _____	Approved Manufacturer / Brand

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____

2004

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Construction and Materials Review
CONCRETE STRUCTURES

Project No.: _____

Contract No.: _____

County: _____

Contractor: _____

Refer to IM 204 for Acceptance of Materials

Contract Item No.	Items	Basis of Acceptance	Approved Brand, Source &/or Batch #
	Air Entraining Agent	Approved Brand	_____
	Curing Compound, White	Approved Brand/Batch #	_____
	Curing Compound, Clear	Approved Brand	_____
	Retarding mixture	Approved Brand	_____
	Water Reducer admixture	Approved Brand	_____
_____	Engineering fabric	Approved Brand	_____
	Joint Filler, Flex Foam Type CF & EF	Approved Brand	_____
_____	Neoprene Bearing Pad	Approved Brand	_____
_____	Paint, Bridge Type _____	Approved Brand	_____
_____	Paint, Bridge Type _____	Approved Brand	_____
_____	Paint, Bridge Type _____	Approved Brand	_____
_____	Paint, Bridge Type _____	Approved Brand	_____
	Rodent Guard	Approved Brand	_____
	Subdrain, CMP, Concrete or PE	Approved Source	_____
	Subdrain outlet, for CMP or PE	Approved Source	_____
_____	Curing Compound for barrier rail	Approved Brand	_____
	Concrete sealer	Approved Brand	_____

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____

2004

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Construction and Materials Review
CONCRETE STRUCTURES

Project No.: _____ Contract No.: _____

County: _____ Contractor: _____

Refer to IM 204 for Acceptance of Materials

<u>Job Control Tests (Construction)</u>		<u>Required</u>	<u>Reported</u>
Fine agg.- grad. process/accept. control	1 Test / Lot*	_____	_____
Fine agg.- acceptance monitor grad.	1st lot, then 10%	_____	_____
Coarse agg.- grad. process/accept. control	1 Test / Lot*	_____	_____
Coarse agg.- acceptance monitor grad.	1st lot, then 10%	_____	_____
Air Test	1 / 30 CY	_____	_____
Slump test	1 / 30 CY	_____	_____
Test beams	2/placement, IM 528	_____	_____
Smoothness	Cert. Test Form 1263	_____	_____

<u>Verification Tests (Materials)</u>		<u>Required</u>	<u>Reported</u>
Coarse aggregate-quality	1 / 1000 CY	_____	_____
Cement	1 / 1000 CY	_____	_____
GGBFS	1 / 1000 CY	_____	_____
Reinforcing Steel	IM 451	_____	_____
Reinforcing Steel, epoxy	IM 451.03B	_____	_____

<u>Independent Assurance (Materials)</u>		<u>Required</u>	<u>Reported</u>
Smoothness	10% of project	_____	_____

<u>Department Info (Materials)</u>		<u>Required</u>	<u>Reported</u>
Compression cylinders (Primary Only)	3 / project	_____	_____

*Lot=1 days run or approximately 250 CY whichever is greater. If less than 250 CY are produced in one calendar week, then that week's work may be considered a lot.

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____

2004

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Construction and Materials Review

PORTLAND CEMENT CONCRETE PAVING & BASE REPAIR

Project No.: _____

Contract No.: _____

County: _____

Contractor: _____

<u>Contract Item No.</u>	<u>Mix Type</u>	<u>Final Quantity</u>	<u>Reported Quantity</u>
_____	Plant Report	_____	_____
_____	Plant Report	_____	_____
_____	Plant Report	_____	_____
_____	Plant Report	_____	_____
_____	Plant Report	_____	_____
_____	Plant Report	_____	_____

Refer to IM 204 for Acceptance of Materials

<u>Items</u>	<u>Basis of Acceptance</u>	<u>Source</u>
Cement	Certification	_____
GGBFS	Certification	_____
Fly Ash Type _____	Certification	_____
Fine Aggregate	Certification	_____
Interm. Aggregate	Certification	_____
Coarse Aggregate	Certification	_____

<u>Contract Item No.</u>	<u>Items</u>	<u>Basis of Acceptance</u>	<u>Approved Brand &/or Batch #</u>
_____	Admixture-Air Entraining	Approved Brand	_____
_____	Admixture-Retarder	Approved Brand	_____
_____	Admixture-Water Reducer	Approved Brand	_____
_____	Curing Compound, White	Approved Brand/Batch #	_____
_____	Curing Compound, Clear	Approved Brand	_____
_____	Concrete Sealer	Approved Brand	_____
_____	Engineering Fabric	Approved Brand	_____
_____	Grout, Polymer	Approved Brand	_____
_____	Joint Filler, Flex Foam	_____	_____
_____	Type CF & EF	Approved Brand	_____

<u>Items</u>	<u>Basis of Acceptance</u>	<u>Units</u>	<u>Reported</u>
Reinforcing steel (dowels)	Mill certs, Epoxy Cert / test Rpt	Lbs	_____
Reinforcing steel (tie bars)	Mill Cert	Lbs	_____
Dowel basket assemblies	Approved Source / Mill Cert, Epoxy Cert	Lbs	_____

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____

2004

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Construction and Materials review
PORTLAND CEMENT CONCRETE PAVING & BASE REPAIR

Project No.: _____

Contract No.: _____

County: _____

Contractor: _____

Refer to IM 204 for Acceptance of Materials

Job Control Tests (Construction)

<u>Items</u>	<u>Basis of Acceptance</u>	<u>Required</u>	<u>Reported</u>
Fine agg.- gradation process control	1 / lot	Form 224	_____
Fine agg.- acceptance monitor grad.	1st lot, then 10%	Form 1283	_____
Intermediate agg.- gradation process control	1 / lot	Form 224	_____
Intermediate agg.- acceptance monitor grad	1st lot, then 10%	Form 1283	_____
Coarse agg.- gradation process control	1 / lot	Form 224	_____
Coarse agg.- acceptance monitor grad.	1st lot, then 10%	Form 1283	_____
Air Test (Paving Only)	1 / 1000 CY or 1 / day	Form 224	_____
(Paving w / Transit mix)	1 / 1000 CY		_____
(Base Repair Only)	2 / Half Day	Form 224	_____
Slump test (Fixed Form)	1 / 1000 CY or 1 / day		_____
(Paving w / Transit mix)	1 / 100 CY or 1 / day		_____
(Base Repair Only)	2 / Half Day	Form 224	_____
Flex. Strength beams	1 / 2000 CY or 2 / day	Form 224	_____
(designate maturity, maturity curves and verifications)			_____
Thickness (hardened concrete)	1 / 2000 SY		_____
Cement yield check	1 / 10000 CY	Form 912	_____
Smoothness	Cert. Test Form 1263	Form 1263	_____
Water (other than city)	Test Report 1 / Source		_____

Verification Tests (Paving Only) (Materials)

		<u>Required</u>	<u>Reported</u>
Coarse aggregate - quality	1 / 100,000 SY	_____	_____
Cement	1 / 100,000 SY	_____	_____
Fly Ash ----- Type _____	1 / 100,000 SY	_____	_____
GGBFS	1 / 100,000 SY	_____	_____
Gradation (QMC Projects Only)	1 / Project	_____	_____
Reinforcing Steel	1 / District / Year	_____	_____
Reinforcing Steel, epoxy	1 / District / Year	_____	_____

Independent Assurance (Materials)

		<u>Required</u>	<u>Reported</u>
Thickness Cores	10% of project	_____	_____
Smoothness	10% of project	Form 1263	_____

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____

2004

Construction and Materials Review

GUARDRAIL & SAFETY ENHANCEMENT

Project No.: _____

Contract No.: _____

County: _____

Contractor: _____

Refer to IM 204 for Acceptance of Materials

<u>Contract</u> <u>Item No.</u>	<u>Item</u>	<u>Basis of Acceptance</u>	<u>Unit</u>	<u>Final</u> <u>Quantity</u>	<u>Reported</u> <u>Quantity</u>
_____	Posts for guardrail , wood	Cert or Test Report	Each	_____	_____
_____	Guardrail Cable	Test Report	Lf.	_____	_____
_____	Steel, Posts	Fabrication Report	Each	_____	_____
_____	RE _____ end anchorages	Test Report	Each	_____	_____
_____	RE _____ end anchorages	Test Report	Each	_____	_____
_____	RE _____ end anchorages	Test Report	Each	_____	_____
_____	RE _____ end anchorages	Test Report	Each	_____	_____
_____	RE _____ bridge connection	Test Report	Each	_____	_____
_____	RE _____ bridge connection	Test Report	Each	_____	_____
_____	RE _____ end anchorages, cable	Test Report	Each	_____	_____
_____	RE _____ end anchorages, cable	Test Report	Each	_____	_____
_____	Delineators posts	Test Report	Each	_____	_____
_____	Object Markers, Type 3	Test Report	Each	_____	_____

<u>Contract</u> <u>Item No.</u>	<u>Item</u>	<u>Basis of Acceptance</u>	<u>Brand</u>
_____	Delineators, amber	Approved Brand	_____
_____	Delineators, white	Approved Brand	_____
_____	Guardrail, formed steel beam	Approved Brand	_____
_____	Guardrail, formed steel beam	Approved Brand	_____

Miscellaneous

<u>Contract</u> <u>Item No.</u>	<u>Item</u>	<u>Basis of Acceptance</u>	<u>Unit</u>	<u>Required</u>	<u>Reported</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____

2004

Construction and Materials Review

SUBDRAIN

Project No.: _____

Contract No.: _____

County: _____

Contractor: _____

Refer to IM 204 for Acceptance of Materials

ALL SUBDRAIN ITEMS IN THIS SECTION NEED CERTIFICATION FROM AN APPROVED SOURCE

Basis of Acceptance

<u>Contract Item No.</u>	<u>Type*</u>	<u>Size</u>	<u>Final Quantity</u>	<u>Reported Quantity</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

*Type includes: P.E. Pipe 12-36 in., CMP, Concrete, CMP Outlet, ABS, PVC

ALL SUBDRAIN ITEMS IN THIS SECTION NEED TO BE FROM AN APPROVED SOURCE OR BRAND

Basis of Acceptance

<u>Contract Item No.</u>	<u>Type**</u>	<u>Size</u>	<u>APPROVED SOURCE / BRAND</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**Type includes: P.E. Tubing 3-10 in., Rodent Guards

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____

2004

Construction and Materials Review

CULVERT AND STORM SEWER PIPE

Project No.: _____

Contract No.: _____

County: _____

Contractor: _____

Refer to IM 204 for Acceptance of Materials

Basis of Acceptance

ALL PIPE IN THIS SECTION NEED CERTIFICATION FROM AN APPROVED SOURCE

<u>Contract Item No.</u>	<u>Type*</u>	<u>Size</u>	<u>Final Quantity</u>	<u>Reported Quantity</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

*Type includes: Conc. Rdwy, Conc. Ent, Conc. Arch (1500D, 2000D, 3000D or 3750D); P.E. Pipe 12-36 in., CMP Rdwy, CMP Ent., CMP Arch; Apron, Apron Guard, Precast Box Culvert, Elbow, Tee, Intake, Daiphram....etc.

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____

2004

Construction and Materials Review

MISCELLANEOUS MATERIALS

(Pavement Markings, Beads, Erosion Control Items, Lighting, Signing, Etc.....)

Project No.: _____

Contract No.: _____

County: _____

Contractor: _____

Refer to IM 204 for Acceptance of Materials

<u>Contract Item No.</u>	<u>Item</u>	<u>Basis of Acceptance</u>	<u>Unit</u>	<u>Required</u>	<u>Reported</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

<u>Contract Item No.</u>	<u>Item</u>	<u>Basis of Acceptance</u>	<u>Unit</u>	<u>Brand or Source</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Comments: _____

Project Engineer Reviewed by: _____ Date: _____

District Materials Reviewed by: _____ Date: _____